

09/724,613

FILE 'HOME' ENTERED AT 12:59:04 ON 30 AUG 2003

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=> file biosis medline caplus wpids uspatfull  
COST IN U.S. DOLLARS          SINCE FILE      TOTAL  
                                ENTRY      SESSION  
FULL ESTIMATED COST          0.21      0.21
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FILE 'BIOSIS' ENTERED AT 12:59:19 ON 30 AUG 2003
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FILE 'CAPLUS' ENTERED AT 12:59:19 ON 30 AUG 2003
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FILE 'USPATFULL' ENTERED AT 12:59:19 ON 30 AUG 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

*** YOU HAVE NEW MAIL ***

=> s releas? (4a) nucleic acid?

=> s 11 and cationic surfactant
1.2 7 L1 AND CATIONIC SURFACTANT

=> s 12 and protease
L3 2 L2 AND PROTEASE

```
=> s 13 and buffer'  
MISMATCHED QUOTE BUFFER!!
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```
=> s l3 and buffer'  
MISMATCHED QUOTE 'BUFFER'  
Quotation marks (or apostrophes) must be used in pairs,  
one before and one after the expression you are setting  
off or masking.
```

=> s 13 and buffer
L4 2 L3 AND BUFFER

=> d 14 bib abs 1-2

L4 ANSWER 1 OF 2 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN
AN 2003-370730 [35] WPIDS

DNC C2003-098150
TI Obtaining nucleic acid from biological sample and binding it to solid phase, by contacting sample with disrupting **buffer** comprising **protease** and **cationic surfactant**, and binding nucleic acid to solid phase.

DC B04 D16

IN GREENFIELD L: MONTESCLAROS L:

IN GREENFIELD, L.; MONTESCLAROS, J.
PA (GREEN-F-L) GREENFIELD L.; (MONT-F-L) MONTESCLAROS L.

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PT US 2002177139 A1 20021128 (200335)* 57p

APT US 2002177139 A1 CTP of US 2000-724613 20001128. US 2001-997169 20011128

BBAT IIS 2000-997169 20011128: IIS 2000-724613 20001128, 05

FRAT 03 2001-337103 20011112
AN 2003-370730 [35] WPIDS

AN 2003 370750 [55] WIIBS
AB IIS2003177139 A IIPAB: 20030603

09567863

NOVELTY - Obtaining (M) nucleic acid from a biological sample and binding the nucleic acid to a solid phase, comprising contacting the biological sample with a disrupting **buffer** (I) containing a **protease** and **cationic surfactant** (II), optionally substantially neutralizing the **cationic surfactant**, and binding the nucleic acid to a solid phase, is new.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a kit comprising a **protease**, a **cationic surfactant**, and a second surfactant which neutralizes the **cationic surfactant**, or a **protease**, a **cationic surfactant**, a non-ionic surfactant which permits the binding of a nucleic acid to a solid phase in the presence of the **protease** and **cationic surfactant**, and a **buffer** with a high salt concentration.

USE - The method and the kit are useful for isolating and releasing nucleic acids from biological samples, and binding the isolated nucleic acid to a solid phase.

ADVANTAGE - The method and the kit reduce the time needed for sample preparation, decrease potential safety risks posed by multistep procedures that require repeated sample manipulation, and/or provide high integrity (i.e. minimally degraded) high molecular weight nucleic acid. The method and the kit also obviate the need for additional equipment to physically or mechanically disrupt tissue.

Dwg. 0/30

L4 ANSWER 2 OF 2 USPATFULL on STN
AN 2002:314662 USPATFULL
TI Compositions, methods, and kits for isolating nucleic acids using surfactants and proteases
IN Greenfield, Lawrence, San Mateo, CA, UNITED STATES
Montesclaros, Luz, Pittsburg, CA, UNITED STATES
PI US 2002177139 A1 20021128
AI US 2001-997169 A1 20011128 (9)
RLI Continuation-in-part of Ser. No. US 2000-724613, filed on 28 Nov 2000, PENDING
DT Utility
FS APPLICATION
LREP Finnegan, Henderson, Farabow,, Garrett & Dunner, L.L.P., 1300 I Street, N.W., Washington, DC, 20005-3315
CLMN Number of Claims: 64
ECL Exemplary Claim: 1
DRWN 32 Drawing Page(s)
LN.CNT 2457
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention relates to compositions and methods for isolating nucleic acids from biological samples, including whole tissue. The invention also provides kits for isolating nucleic acids from biological samples.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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FILE 'BIOSIS, MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 12:59:19 ON
30 AUG 2003

L1 2750 S RELEASES? (4A) NUCLEIC ACID?
L2 7 S L1 AND CATIONIC SURFACTANT
L3 2 S L2 AND PROTEASE
L4 2 S L3 AND BUFFER

=> s cationic surfactant (6a) releas? (4a) nucleic acid?

L5 1 CATIONIC SURFACTANT (6A) RELEASES? (4A) NUCLEIC ACID?

=> d 15 bib abs

L5 ANSWER 1 OF 1 USPATFULL on STN
AN 2002:314662 USPATFULL
TI Compositions, methods, and kits for isolating nucleic acids using
surfactants and proteases
IN Greenfield, Lawrence, San Mateo, CA, UNITED STATES
Montesclaros, Luz, Pittsburg, CA, UNITED STATES
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